

**ONE PIECE INTERCONNECT FROM CHANNEL CHIP TO HEAD
SLIDER IN A VOICE COIL ACTUATOR FOR A DISK DRIVE**

Abstract

A single flex interconnection circuit bonds to a connector, to electronic components
5 including at least preamplifier, and to at least one MR read-write head. The flex
interconnection circuit provides the least number of bonds for each of the lines involved.
The least number of bonds provides the least parasitic capacitance and inductance on
these lines. The method of making the flex interconnection circuit requires the least
number of bonding steps, minimizing the manufacturing cost. The invention includes the
10 flex interconnection substrate, flex interconnection circuit built on the substrate, the
actuator and disk built from the flex interconnection circuit.